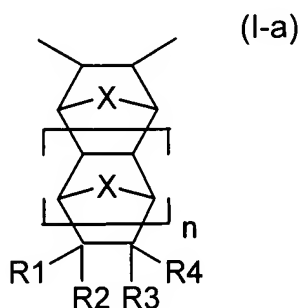


This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A polymer comprising a repeating unit represented by the formula:

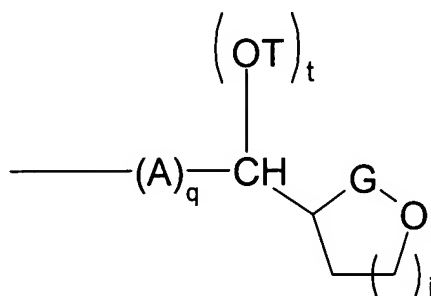


wherein in Formula (I-a):

X is O, S, $-\text{CH}_2-$ or $-\text{CH}_2\text{CH}_2-$;

n is an integer from 0 to 5 inclusive;

each R1 to R4 independently represents hydrogen, a linear or branched (C_1 to C_{20}) alkyl, or a linear or branched (C_1 to C_{20}) haloalkyl, subject to the proviso that at least one of R1 to R4 is a group represented by the formula:

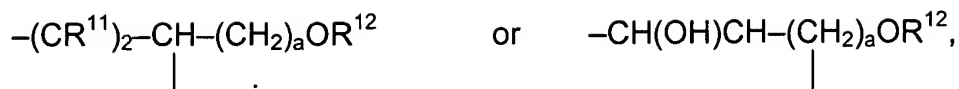


wherein: G is $-\text{SO}_2-$ or $-\text{C}(\text{O})-$; T is H or $-\text{Si}(\text{R}^{20})_3$; t is 0 or 1;

j is 1 or 2; q is 0 or 1; and A is a spacer moiety represented by $-(\text{CH}_2)_m-$,

$-(\text{CH}_2)_m\text{O}-$, $-(\text{CH}_2)_m\text{O}(\text{CH}_2)_m-$, $\text{O}(\text{CH}_2)_m-$,

$-(\text{CH}_2)_m\text{NR}^9(\text{CH}_2)_m-$, $-(\text{C}(\text{R}^{10})_2)_m(\text{C}(\text{R}^{10})_2)_m\text{O}(\text{C}(\text{R}^{11})_2)_a-$,



wherein: each R^9 independently is (C_1 to C_5) alkyl; each R^{10} independently is hydrogen, halogen, (C_1 to C_5) alkyl, or (C_1 to C_5) haloalkyl; R^{11} independently is hydrogen or halogen; each R^{12} independently is hydrogen, (C_1 to C_{10}) alkyl or (C_1 to C_5) haloalkyl; each R^{20} independently is a (C_1 to C_4) alkyl; each a independently is 2 to 6; and each m independently is 0 to 4, ~~the polymer comprising only norbornene-type repeating units.~~

2. (Original) The polymer of claim 1 wherein G is $-\text{C}(\text{O})-$, T is $-\text{Si}(\text{CH}_3)_3$, t is 1, n is 0, q is 0 and j is 1.

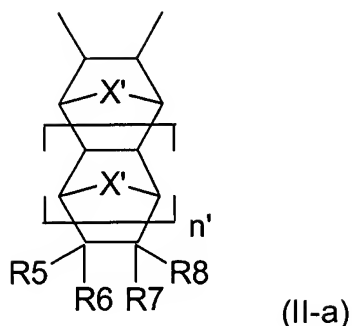
3. (Original) The polymer of claim 2 wherein X is $-\text{CH}_2-$, and R_1 , R_2 and R_3 are each hydrogen.

4. (Currently Amended) The polymer of claim 1 wherein G is $-\text{SO}_2-$, T is H $-\text{Si}(\text{CH}_3)_3$, n is 0, q is 0 and j is 2.

5. (Original) The polymer of claim 4 wherein X is $-\text{CH}_2-$, and R_1 , R_2 and R_3 are each hydrogen.

6. (Canceled)

7. (currently amended) The polymer of claim 1 further comprising a ~~norbornene-type~~ repeating unit represented by the following formula (II-a):



wherein in Formula (II-a):

X' is O, S, $-CH_2-$ or $-CH_2CH_2-$;

n' is an integer from 0 to 5 inclusive; and

each R5 to R8 independently is selected from: hydrogen; linear or branched (C_1 to C_{20}) alkyl; linear or branched (C_1 to C_{20}) haloalkyl; substituted or unsubstituted (C_4 - C_{12}) cycloalkyl; substituted or unsubstituted (C_1 to C_{10}) hydroxyalkyl;

$-(CH_2)_bC(CF_3)_2OR^{13}$; $-(CH_2)_bC(O)OR^{14}$; $-(CH_2)_bOR^{14}$; $-(CH_2)_bOC(O)R^{14}$; $-(CH_2)_bC(O)R^{14}$; $-(CH_2)_bOC(O)OR^{14}$; $-(CH_2)_bC(O)OR^{15}$; $-(CH_2)_bSi(R^{16})_3$; $-(CH_2)_bSi(OR^{16})_3$; $-(CH_2)_bNR^{17}SO_2R^{18}$; or $-(CH_2)_bSO_2NR^{17}R^{18}$;

wherein: b is 0 to 4; each R^{13} independently is selected from hydrogen, linear or branched (C_1 - C_{10}) alkyl, or linear or branched (C_1 - C_{10}) haloalkyl; each R^{14} is selected from hydrogen, linear or branched (C_1 to C_{10}) alkyl, or substituted or unsubstituted (C_4 - C_8) cycloalkyl; R^{15} is an acid labile group; each R^{16} independently is selected from hydrogen and (C_1 to C_5) alkyl; each R^{17} independently is selected from hydrogen, linear or branched (C_1 - C_5) haloalkyl, linear or branched tri(C_1 - C_{10}) alkylsilyl, $-C(O)CF_3$, $-C(O)OR^{19}$, or $-OC(O)OR^{19}$; each R^{18} independently is selected from hydrogen, linear or branched (C_1 - C_{10}) alkyl, linear or branched (C_1 - C_5) haloalkyl, $-OR^{13}$, $-C(O)R^{13}$, substituted or unsubstituted (C_3 - C_8) cycloalkyl, substituted or unsubstituted cyclic esters containing 2 to 8 carbon atoms, substituted or unsubstituted cyclic ketones containing 4 to 8 carbon atoms, substituted or unsubstituted cyclic ethers or cyclic diethers containing 4 to 8 carbon atoms; each R^{19} independently is selected from linear or branched (C_1 - C_{10}) alkyl, or linear or branched (C_1 - C_{10}) haloalkyl; R5 and R6 and/or R7 and R8 independently taken together can form a (C_1 - C_5) alkylidenyl group or a spiral anhydride group; R6 and R7 taken together with the two ring carbon atoms to which they are attached can form a cyclic (C_3 to C_6)

anhydride group, a cyclic (C₃ to C₆) sulfonamide group, or a cyclic (C₃ to C₆) sultone group.

8. (Original) The polymer of claim 7 wherein X' is -CH₂-, n' is 0, each of R5, R6 and R7 is H, and R8 is -(CH₂)_bC(O)OR¹⁴, wherein b is 0 and R¹⁴ is t-butyl.

9. (Original) The polymer of claim 8 wherein X is -CH₂-, n is 0, each of R1, R2 and R3 is H, q is 0, j is 2, T is H, t is 1, and G is -SO₂-.

10. (Original) The polymer of claim 7 wherein X' is -CH₂-, n' is 0, each of R5, R6 and R7 is H, and R8 is -(CH₂)_bC(O)OR¹⁴, wherein b is 0 and R¹⁴ is 1-methyl cyclopentyl.

11. (Original) The polymer of claim 10 wherein X is -CH₂-, n is 0, each of R1, R2 and R3 is H, q is 0, j is 1, T is -Si(R²⁰)₃ wherein each R²⁰ is methyl, t is 1, and G is -C(O)-.

12. (Original) The polymer of claim 11 wherein the polymer further comprises another repeating unit, the another repeating unit being represented by Formula (II) wherein X' is -CH₂-, n' is 0, each of R5, R6 and R7 is H, and R8 is -(CH₂)_bC(CF₃)₂OR¹³ wherein b is 1 and R¹³ is hydrogen.

13. (Original) A photoresist composition comprising the polymer of claim 1.

14. (Original) A photoresist composition comprising the polymer of claim 7.

15. (Original) A process for generating an image on a substrate, comprising:
(a) coating the substrate with a photoresist composition comprising the polymer of claim 1;
(b) image wise exposing the film to radiation; and
(c) developing the image.

16. (Original) The process of claim 15 wherein the radiation has a wavelength of about 157 nm.

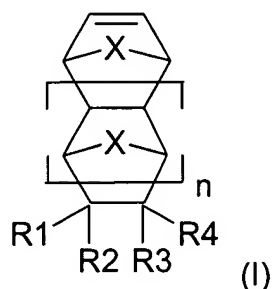
17. (Original) The process of claim 15 wherein the radiation has a wavelength of about 193 nm.

18. (Original) A process for generating an image on a substrate, comprising:
(a) coating the substrate with a photoresist composition comprising the polymer of claim 7;
(b) image wise exposing the film to radiation; and
(c) developing the image.

19. (Original) The process of claim 18 wherein the radiation has a wavelength of about 157 nm.

20. (Original) The process of claim 18 wherein the radiation has a wavelength of about 193 nm.

21. (Currently Amended) A compound represented by the formula:

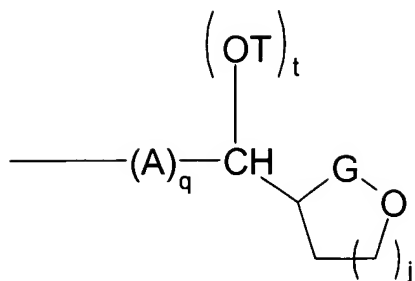


wherein in Formula (I):

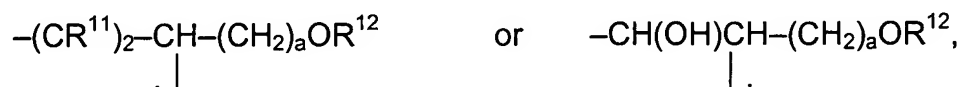
X is O, S, -CH₂- or -CH₂CH₂-;

n is an integer from 0 to 5 inclusive;

each R1 to R4 independently represents hydrogen, a linear or branched (C₁ to C₂₀) alkyl, or a linear or branched (C₁ to C₂₀) haloalkyl, subject to the proviso that at least one of R1 to R4 is a group represented by the formula:



wherein: G is $-\text{C}(\text{O})-$ or $-\text{SO}_2-$; T is H or $-\text{Si}(\text{R}^{20})_3$ wherein R^{20} is H or (C_1 to C_4) alkyl; t is 0 or 1; j is 1 or 2; q is 0 or 1; and A is a spacer moiety represented by $-(\text{CH}_2)_m-$, $-(\text{CH}_2)_m\text{O}-$, $-(\text{CH}_2)_m\text{O}(\text{CH}_2)_m-$, $\text{O}(\text{CH}_2)_m-$, $-(\text{CH}_2)_m\text{NR}^9(\text{CH}_2)_m-$, $-(\text{C}(\text{R}^{10})_2)_m(\text{C}(\text{R}^{10})_2)_m\text{O}(\text{C}(\text{R}^{11})_2)_a-$,



wherein: each R^9 independently is (C_1 to C_5) alkyl; each R^{10} independently is hydrogen, halogen, (C_1 to C_5) alkyl, or (C_1 to C_5) haloalkyl; each R^{11} independently is hydrogen or halogen; each R^{12} independently is hydrogen, (C_1 to C_{10}) alkyl or (C_1 to C_5) haloalkyl; each a independently is 2 to 6; and each m independently is 0 to 4;
~~with the proviso that when G is $-\text{C}(\text{O})-$, T is $-\text{Si}(\text{R}^{20})_3$.~~

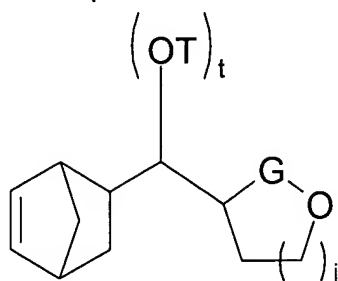
22. (Original) The compound of claim 21 wherein G is $-\text{C}(\text{O})-$, T is $-\text{Si}(\text{CH}_3)_3$, n is 0, q is 0 and j is 1.

23. (Original) The compound of claim 22 wherein X is $-\text{CH}_2-$, and R_1 , R_2 and R_3 are each hydrogen.

24. (Currently Amended) The compound of claim 21 wherein G is $-\text{SO}_2-$, T is H $-\text{Si}(\text{CH}_3)_3$, t is 1, n is 0, q is 0, and j is 2.

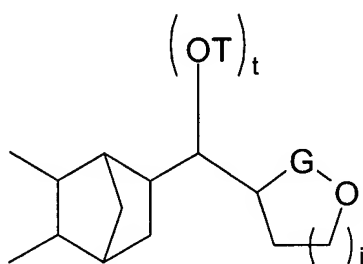
25. (Original) The compound of claim 24 wherein X is $-\text{CH}_2-$, and R_1 , R_2 and R_3 are each hydrogen.

26. (Currently Amended) A compound represented by the formula:



wherein G is $-\text{C}(\text{O})-$ or $-\text{SO}_2-$, T is H or $-\text{Si}(\text{CH}_3)_3$, t is 1, and j is 1 or 2.

27. (Currently Amended) A polymer comprising a repeating unit represented by the formula



wherein: G is $-\text{SO}_2-$ or $-\text{C}(\text{O})-$; T is H or $-\text{Si}(\text{R}^{20})_3$, each R^{20} independently is (C_1 to C_4) alkyl; t is 1; and j is 1 or 2, ~~the polymer comprising only norbornene-type repeating units.~~